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Jane Dee Hull, Governor  
James L. Schamadan, MD, Acting Director

DATE: December 2, 1997

TO: Laboratory Director and QA Manager

FROM: Dr. Barbara J. Erickson, Ph.D., Bureau Chief

SUBJECT: Information Update #40

NOTE: If any problems occur with this web site, please call 1-800-952-0074 or (602) 255-3454 and ask for Technical Resources and Training. Thank You.

1. The methods which are required for compliance testing, that are not included in the current Arizona Environmental Rules dated 7/11/1997, are in the process of being added to the upcoming amended Rules. The licensed laboratories will be kept informed on the progress of the amended Rules.
2. An update on 8015AZ; It is once again going through some revisions. The following changes are being proposed to be made to the 10/23/97 draft version; a) The method is being made applicable to water samples also. b) The holding times and the reporting limits are being discussed with the various program staff of Arizona Department of Environmental Quality (ADEQ). c) Gasoline can be quantitated using GC/PID, after a laboratory has done side by side studies to prove that a PID does not yield statistically lower results for fresh and degraded gasoline contaminated samples compared to a FID. We will keep you updated.
3. Since method 8021 has an expanded list of new chemical contaminants which would add to the cost of analysis, over the past several months, representatives from ADEQ programs, Arizona Department of Health Services (ADHS), and the Arizona Laboratory Association (ALA) have met to discuss a standard list for EPA 8021, to be known as 8021AZ. The following list identifies the contaminants on what will be known as 8021AZ standard list. A shorter list i.e., BTEX may still be requested or additional compounds listed in the current promulgated version of 8021 can also be requested.

**8021AZ  
Standard Arizona VOC GC List**

Aromatics

Benzene

Ethylbenzene

Toluene

Xylenes (total)

Halocarbons

Bromodichloromethane

Bromoform

Bromomethane

Carbon tetrachloride

1,1- Dichloroethene

trans- 1,2- Dichloroethene

cis- 1,2- Dichloroethene

1,2- Dichloropropane

Chlorobenzene	cis- 1,3- Dichloropropene
Chloroethane	trans- 1,3- Dichloropropene
Chloroform	Methylene chloride
Chloromethane	1,1,2,2- Tetrachloroethane
Dibromochloromethane	Trichloroethene
1,2- Dichlorobenzene	1,1,1- Trichloroethane
1,3- Dichlorobenzene	1,1,2- Trichloroethane
1,4- Dichlorobenzene	Tetrachloroethene
Dichlorodifluoromethane	Trichlorofluoromethane
1,1- Dichloroethane	Vinyl Chloride
1,2- Dichloroethane	

4. Two environmental training workshops are being planned for January 13 and 14, 1998 at Francisco Grande Resort and Golf Club, 26000 Gila Bend Highway, Casa Grande, Arizona 85222. Tel: (520) 836-6444. Overnight lodging is available at the resort.

A 3-hour *Data Evaluation* seminar is planned for the morning of the 13th from 9:00 am - 12:00 noon. Evaluation, validation, compliance and data usability; Quality control, Acceptance limits, Quality control result evaluation; Streamlining and PBMS data evaluation will be covered. Informal discussions are planned for the afternoon. The presenter and the Laboratory Consultants (auditors) will be available to answer your questions.

A 6-hour *Analyst Training* seminar is planned for January 14th from 9:00 am to 4:00 pm. The following topics will be covered; Introduction - Why train, why certify, Laboratory & analyst certification, Formal academic education deficiencies, Legal requirements of foundation evidence, Lack of laboratory skills, Lack of environmental analysis knowledge; Training Programs - Introduction to QA and lab skills training 3 hour program, Basic analyst training 40 hour program; Evaluation - Method proficiency; Documentation and Training Files - Resume, training certificates, PE sample results, System audit results, MDL, IDA, certification exam results.

The presenter for both the workshops is Dr. Roy-Keith Smith. Dr. Smith is the Analytical Methods Manager/QA Manager/Organics Technical Director, Analytical Services Inc. 110 Technology Parkway, Norcross, Ga, since March 1992. He is responsible for analyst technical training, administration of Quality Assurance Program, obtaining and maintaining lab certification/validations, PE sample program management, governmental and regulatory agency contact/response, and serving as a technical expert in all aspects of laboratory operations. He has taught several College Chemistry courses, Hewlett-Packard technical courses and numerous other technical courses. He is the author of several technical books, including *Environmental Laboratory Data Evaluation* and *Handbook of Environmental analysis*.

There will be a registration fee of \$25.00 per person/workshop. The registration fees will cover the catered lunches provided both days. Please call Cristy Finan at (602) 255-3454 for registration before December 24, 1997.

5. If you have any questions regarding the Updates, or if you have any technical questions that need

clarification, please call or send [e-mail](#) to Prabha Acharya, Program Manager, Technical Resources and Training at the Laboratory Licensure. A [table of contents](#) to all the Information Updates published is also available.

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